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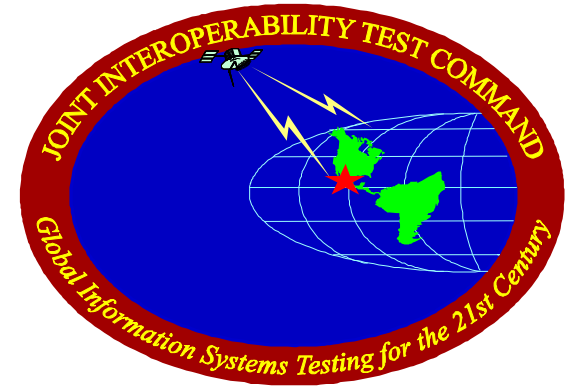
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## **DEFENSE INFORMATION SYSTEMS AGENCY (DISA) JOINT DEFENSE RED SWITCH NETWORK (DRSN) TESTBED**



## **Joint Interoperability Test Command**

**Joint Interoperability Test Command  
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**Support for the Warfighter....Anytime....Anyplace**

## INTRODUCTION

The Defense Red Switch Network (DRSN) provides secure telecommunications for Command and Control (C2) crisis management. The mission of the DRSN is to support high quality multi-level secure voice, interfaces for dissimilar crypto Systems and conferencing requirements. The DRSN provides support to the National Command Authority (NCA), the National Military Command Center (NMCC), CINC Command Center, Warfighters, and other critical DoD and federal activities with reliable, secure, interoperable C2 and crisis management capabilities. The Defense Information Systems Agency (DISA) DRSN Program Manager's Office established a DRSN testbed at the Joint Interoperability Test Command (JITC) located at Fort Huachuca, Arizona, to conduct testing of the DRSN software, firmware and hardware.

## TESTING

Beta testing determines if the item under test (software, hardware, or firmware) for the DRSN switches is interoperable with fielded systems, corrects known problems experienced in previous versions, and determines the functionality and interoperability of enhancements. The testing is in response to the DRSN Program Manager's requirement to ensure the operational effectiveness and suitability of the new DRSN item under test prior to fielding.

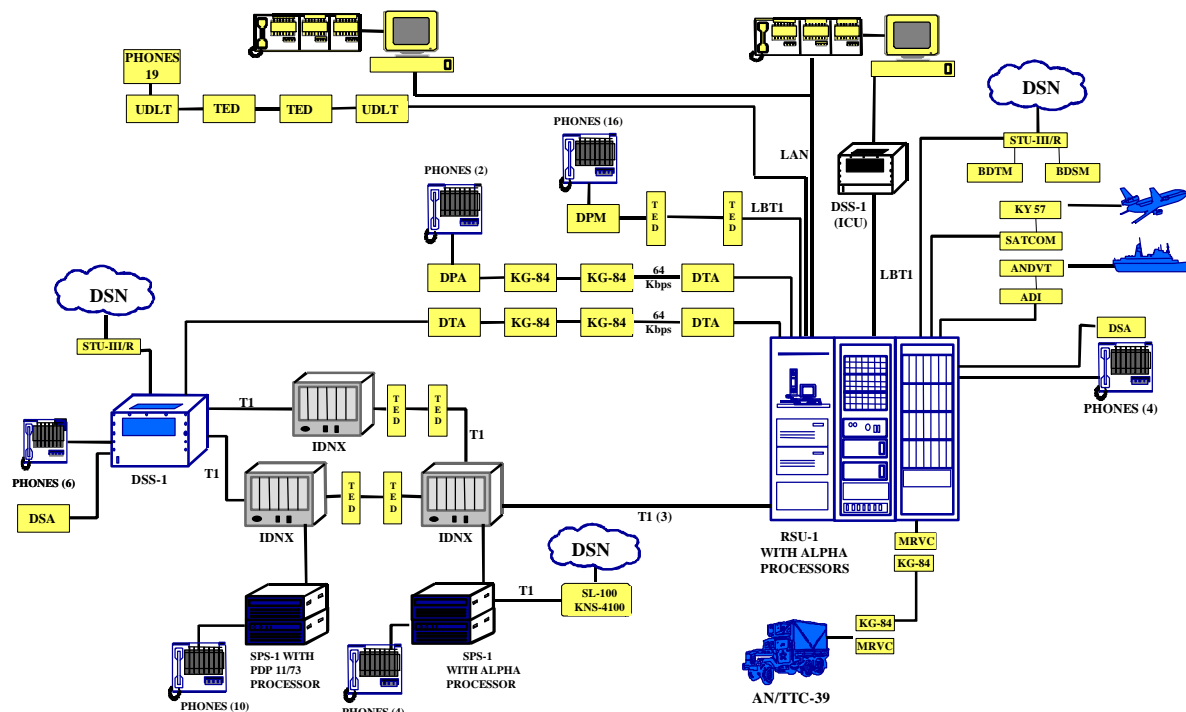
## CAPABILITIES

- ◆ Beta Testing of Secure Digital Switching Systems Software
- ◆ Beta Testing of Digital Small Switching Systems Software
- ◆ Beta Testing of Firmware
- ◆ Feasibility Testing Prior to Full Production
- ◆ Tactical/Strategic Scenarios
- ◆ Bottom line.... Support the Warfighter

## DRSN TESTBED FACILITIES

- ◆ Five Red Switches Networked via Integrated Digital Network Exchanges
- ◆ Transportable Digital Small Switch
- ◆ Three transportable Dual Phone Adapters
- ◆ Five Integrated Service Telephone Consoles

- ◆ Two Digital Phone Multiplexers
- ◆ Four UDTL Multiplexers
- ◆ Three Dual Trunk/Dual Phone Adapters
- ◆ Satellite Communications Panel
- ◆ Advanced Narrowband Digital Voice Terminal (ANDVT) Digital Interface (ADI)
- ◆ Multiple Rate Voice Cards (MRVC)
- ◆ Two Enhanced Command Console (ECC)



### LEGEND

ADI	ANDVT Digital Interface	KG-84	Single Channel Encryption Unit
ANDVT	Advanced Narrowband Digital Voice Terminal	KNS-4100	Commercial Switch
AN/TTC-39	Tactical Switch Family	KY-57	Vinson Speech Security Device
BDSM	Black Digital Subscriber Mode	LAN	Local Area Network
BDTM	Black Digital Trunk Mode	LBT1	1.344 Mbps
DPA	Dual Phone Adapter	MRVC	Multiple Rate Voice Card
DPM	Digital Phone Multiplexer	RSU-1	Medium-Size Digital Switch
DSA	Digital Speaker Assembly	SATCOM	Satellite Communications
DSN	Defense Switched Network	SL-100	Commercial Switch
DSS-1	Digital Small Switch	SPS-1	Secure Portable Switch
DTA	Dual Trunk Adapter	STU-III/R	Remote Secure Telephone Unit
ICS-1	Integrated Command Switch	TED	Trunk Encryption Device
ICU	Interface Control Unit	T1	1.544 Mbps
IDNX	Integrated Digital Network Exchange	UDLT	Universal Digital Loop Transceiver